

Title (en)  
SPRAYING DEVICE

Title (de)  
ZERSTÄUBERVORRICHTUNG

Title (fr)  
DISPOSITIF DE PULVÉRISATION

Publication  
**EP 2589402 B1 20180725 (EN)**

Application  
**EP 11800862 A 20110628**

Priority  
• JP 2010148432 A 20100630  
• JP 2011064831 W 20110628

Abstract (en)  
[origin: EP2589402A1] An object is to provide an administration device capable of discharging a prescribed, equal amount of medicine a number of times by spraying. Provided is a spraying device including: a barrel allowing attachment of a spray nozzle at a tip end; a gasket provided slidably movable in liquid-tight manner in said barrel; a rod coupled to a base end of the gasket and having a guide groove; and a regulating member provided on the barrel, having a projection that can slidably fit with the guide groove; wherein the guide groove includes at least a first administering groove and a second administering groove provided continuous from the first administering groove; the second administering groove is configured to include a transitional portion extending in the circumferential direction with a groove wall on the base end side aligned with the base end of the first administering portion, and a second administering portion extending from the transitional portion to a base end along the longitudinal direction; and an energizing protrusion engageable with the projection is provided at a boundary between the transitional portion and the second administering portion.

IPC 8 full level  
**A61M 11/00** (2006.01); **A61M 3/00** (2006.01); **A61M 15/08** (2006.01)

CPC (source: EP US)  
**A61M 3/0262** (2013.01 - EP US); **A61M 5/3155** (2013.01 - US); **A61M 11/007** (2014.02 - EP US); **A61M 11/08** (2013.01 - EP US);  
**A61M 15/08** (2013.01 - US); **A61M 5/31595** (2013.01 - EP US); **A61M 2005/3139** (2013.01 - EP US); **A61M 2210/0618** (2013.01 - EP US)

Cited by  
WO2019058056A1; FR3071161A1; US2019388622A1; US10449300B2; WO2016120312A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2589402 A1 20130508**; **EP 2589402 A4 20150401**; **EP 2589402 B1 20180725**; CN 103025376 A 20130403; CN 103025376 B 20160330;  
JP 5888234 B2 20160316; JP WO2012002398 A1 20130829; US 2013096493 A1 20130418; US 9526841 B2 20161227;  
WO 2012002398 A1 20120105

DOCDB simple family (application)  
**EP 11800862 A 20110628**; CN 201180031810 A 20110628; JP 2011064831 W 20110628; JP 2012522646 A 20110628;  
US 201113807592 A 20110628